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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,925	08/10/2007	Erwin Oser	5151-19PUS	4759
27799	7590	04/29/2010	EXAMINER	
COHEN, PONTANI, LIEBERMAN & PAVANE LLP 551 FIFTH AVENUE SUITE 1210 NEW YORK, NY 10176			NGUYEN, HOANG M	
			ART UNIT	PAPER NUMBER
			3748	
			MAIL DATE	DELIVERY MODE
			04/29/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/583,925	OSER ET AL.	
	Examiner	Art Unit	
	Hoang M. Nguyen	3748	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 25 March 2010.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 21-40 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 21-40 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____ .	5) <input type="checkbox"/> Notice of Informal Patent Application
	6) <input type="checkbox"/> Other: _____ .

Applicant's amendment dated March 25, 2010, has been fully considered.

Applicant argued McClure discloses a compressor-type roots blower, not an expansion roots blower. Note Lawheed already discloses an expansion roots blower, McClure is relied upon to teach a roots blower can have triple blades. Also, the rotor of the roots blower is the same no matter if the roots blower is used as a compressor or expander. To modify Lawheed by McClure, one having ordinary skill in the art simply uses the expansion device with triple-blade roots blower.

Applicant argued it would have been impermissible hindsight to combine the references. The Examiner disagrees because the concept of using triple-blade roots blower is well known in the art and the Examiner did not make the rejections based on Applicant's disclosure.

Applicant argued the combination fails to suggest "expanding the evaporated working fluid ... a roots blower having triple blade rotors.. is transformed to mechanical energy". The Examiner disagrees because after using a roots blower with triple blade rotor in Lawheed, the combination discloses exactly the same structure as the claimed invention and must be able to perform the same functions.

For the reasons set forth above, the rejections have been maintained and this Office Action has been made FINAL.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 21-27, 35-40, are rejected under 35 U.S.C. § 103(a) as being unpatentable over US 2003/0172654 (Lawheed) in view of US 4429661 (McClure). Lawheed discloses an engine 42 with rotors 100 forming a roots blower with double lobes in figure 6, an evaporator 26, and a condenser 46. Lawheed does not disclose a triple lobes rotor. McClure discloses it's well known to use triple-blades roots blower 60, 140, in a heat power plant with an evaporator 120. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to use triple blade roots blower in the system of Lawheed as taught by McClure for the purpose of improving the flow rates by the triple blades rotor.

Claims 28-34 are rejected under 35 U.S.C. § 103(a) as being unpatentable over US 2003/0172654 (Lawheed) in view of McClure and WO 85/02881 (Lipovetz et al). Lawheed as modified by McClure discloses all the claimed subject matter as set forth above in the rejection of claim 21, but does not disclose absorbent step. Lipovetz et al is relied upon to disclose it's well known in a closed cycle system to have an engine 3 with expansion step, then after expansion, a component of the working substance is absorbed using an absorption agent (note page 7, lines 20-30). It would have been

obvious at the time the invention was made to a person having ordinary skill in the art to provide an absorption agent in the system of Lawheed as taught by Lipovetz et al for the purpose of achieving appropriate temperature as claimed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 3748

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Examiner Nguyen whose telephone number is (571) 272-4861. The examiner can normally be reached on Tuesday--Friday from 12:30 AM to 10:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion can be reached on 571-272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Hoang M Nguyen/
Primary Examiner, Art Unit 3748

HOANG NGUYEN
PRIMARY EXAMINER
ART UNIT 3748

Hoang Minh Nguyen
4/29/2010